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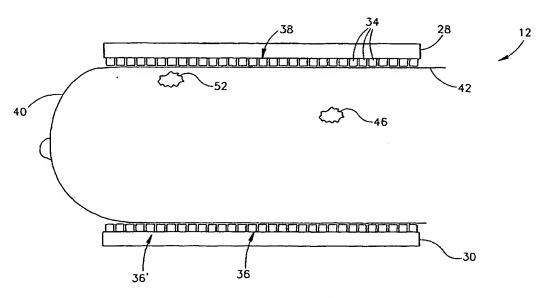
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[Continued on next page]

(54) Title: LOCALIZATION OF ANOMALIES AND GUIDANCE OF INVASIVE TOOLS BY IMPEDANCE IMAGING



(57) Abstract: Apparatus for impedance imaging of a region within a subject. The apparatus includes a plurality of electrodes adapted to, substantially concurrently, apply electrical signals having a common frequency and different phases to the subject and a plurality of sensing elements adapted to sense electrical signals from a surface of the region, responsive to signals applied from the electrodes.



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24 January 2002

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the begin-For two-letter codes and other abbreviations, refer to the "Guidning of each regular issue of the PCT Gazette.

nternational Application No PCT/IL 00/00839

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A. CLASSIF IPC 7	FICATION OF SUBJECT MATTER A61B5/05		
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B. FIELDS			
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C POCUM	ENTS CONSIDERED TO BE RELEVANT		
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Special ca 'A' docume consider 'E' eartier of filling of the creation of the residual calculation. 'O' docume other is	ent which may throw doubts on priority claim(s) or is citled to establish the publication date of another in or other special reason (as specified) ent referring to an oral disclosure, use, exhibition or means	cited to understand the prin invention "X" document of particular relevations to considered nove involve an inventive step with document of particular relevations to considered to involve in secombined with document is combined with	onlici with the application but ciple or theory underlying the ance; the claimed invention I or cannot be considered to then the document is taken alone
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	Tel. (+31-70) 340-2040. Tx. 31 651 epo nl. Fax: (+31-70) 340-3016	Knüpling, M	

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International application No. PCT/IL 00/00839

INTERNATIONAL SEARCH REPORT

Box I	Observations where certain claims wer tound unsearchabl (Continuation of item 1 of first sheet)
This Inte	ernational Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. X	Claims Nos.: 110-115 because they relate to subject matter not required to be searched by this Authority, namely: Rule 39.1(iv) PCT - Method for treatment of the human or animal body by
	surgery
2.	Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
, []	Claims Nos.:
J	because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II	Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
This Inte	emational Searching Authority found multiple inventions in this international application, as follows:
	see additional sheet
	·
1.	As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2.	As all searcnable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. X	As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
	1-54,64-91,98-109
4.	No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remari	The additional search fees were accompanied by the applicant's protest.
	No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claims: 1-14,36-45,49-54.81,83-91*

Apparatus for impedance imaging comprising controller adapted to initiate sensing while a sensing element is kept floating and method

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*Claims 49 and 50 only if dependent on claim 44 or 45

Claim 51 only if dependent on claim 49 and claim 49 dependent on claim 44 or 45

Claim 83 only if dependent on claim 81

2. Claims: 15-35,67-80,82,83*

Apparatus for impedance imaging comprising electrification controller adapted to electrify a long and narrow line of electrifyable elements

*Claim 83 only if dependent on claim 82

3. Claims: 46-51*

Apparatus for sensing electrical signals comprising sensing circuit with controllable input impedance

*Claims 49,50 only if not dependent on claim 44 or 45

Claim 51 only if not dependent on claim 49 and claim 49 dependent on claim 44 or 45

4. Claims: 55-58.92-97

Apparatus for impedance imaging comprising processing unit to determine a depth of an anomaly and method

5. Claims: 59-63,116-127

Apparatus for determining location of an elongate object comprising controller adapted to adjust electrical signals provided to the elongate object

6. Claims: 64-66.98-109

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210				
	Apparatus for impedance imaging comprising probe adapted to apply electrifying signals at a plurality of distinct frequencies and method			

Information on patent family members

PCT/IL 00/00839

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